

LISTING OF CLAIMS

Claims 1-2: (Canceled)

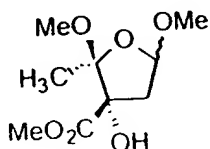
3. (Currently Amended) A process according to claim ~~1~~ 26 wherein said preparation is carried out in the presence of a Bronstead acid or a Lewis acid.

4. (Original) A process according to claim 3 wherein the acid is selected from the group consisting of camphor sulfonic acid, *para*-toluene sulfonic acid, and $\text{BF}_3 \cdot \text{Et}_2\text{O}$.

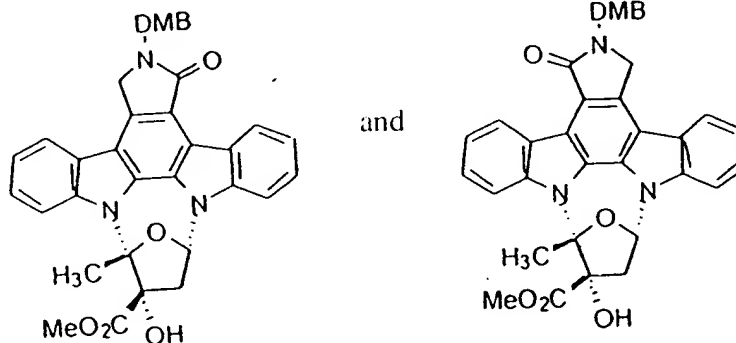
5. (Original) A process according to claim 4 wherein camphor sulfonic acid is used as a catalyst and dichloroethane is used as a solvent.

Claims 6-7: (Cancelled)

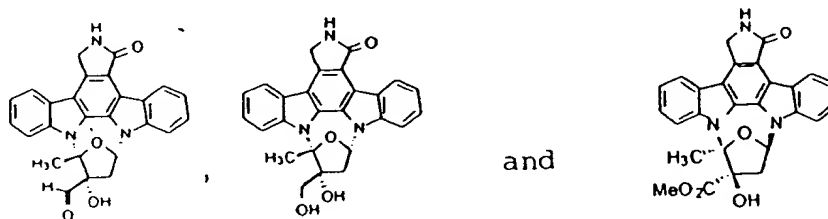
8. (Currently amended) A process according to claim ~~1~~ 26 wherein a furanose of the formula



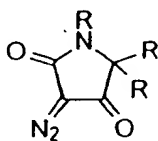
is reacted with DMB-protected K252c to give two products of the formulae



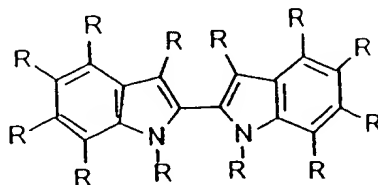
9. (Currently amended) A product prepared according to the process of claim \pm 26.
10. (Previously presented) A product prepared according to the process of claim 3.
11. (Currently amended) A process according to claim \pm 26 wherein the furanosylated indolocarbazole prepared is K252a.
12. (Currently amended) A process according to claim \pm 26 wherein the furanosylated indolocarbazoles prepared are selected from the group consisting of:



13. (Currently amended) A process according to claim \pm 26 wherein the indolocarbazole is prepared by reacting a diazo compound having the ring structure



with a biindole having the ring structure



14. (Original) A process according to claim 13 wherein the reaction is carried out in the presence of a transition metal catalyst in a solvent capable of solvating the reactants.

15. (Original) A process according to claim 13 wherein the coupling reaction is carried out in the presence of a $\text{Rh}_2(\text{OAc})_4$ catalyst.

16. (Currently amended) A process according to claim 13 wherein the diazo compound is a diazolactam ~~diazolactam~~ and the biindole is a 2,2'-biindole.

Claims 17-18: (Canceled)

19. (Currently amended) A process according to claim 27 ~~47~~ wherein the furanosylated indolocarbazole prepared is K252a.

20. (Currently amended) A product produced by the process of claim 27 ~~47~~.

21. (Currently amended) A process according to claim 26 ~~4~~ wherein the indolocarbazole is reacted with an acetal under conditions that promote acetal exchange.

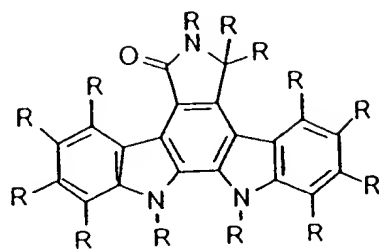
22. (Previously presented) A process according to claim 3 wherein the preparation is carried out in the presence of a Lewis acid.

23. (Currently amended) A process according to claim 27 ~~47~~ wherein the biindole is a 2,2' - biindole.

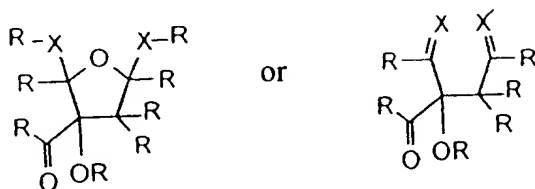
24. (Currently amended) A process according to claim 27 ~~47~~ wherein a Lewis acid is employed.

25. (Canceled)

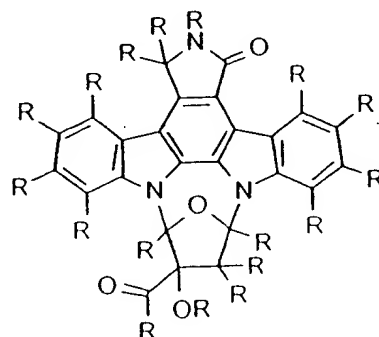
Claim 26. (New) A process for the preparation of furanosylated indolocarbazoles by reacting an indolocarbazole having the ring structure



with an acetal having the structure



wherein X is O, under conditions that promote acetal exchange or formation to produce a furanosylated product having the ring structure



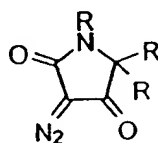
wherein R is selected from the group consisting of:

- hydrogen;
- CH₃;
- OCH₃;
- 3,4-DMB;
- PMB;
- Bn;
- t-Bu;

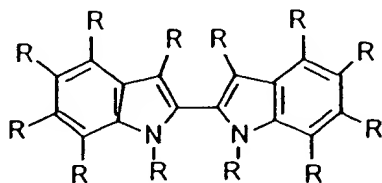
saturated or unsaturated, branched, linear, or cyclic alkyl, heteroalkyl, aryl, and heteroaryl groups; and mixtures of the foregoing, wherein hetero refers to O, S, N, or P.

Claim 27. (New) A process for the preparation of furanosylated indolocarbazoles comprising:

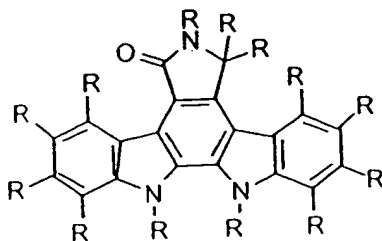
reacting a diazo compound having the ring structure



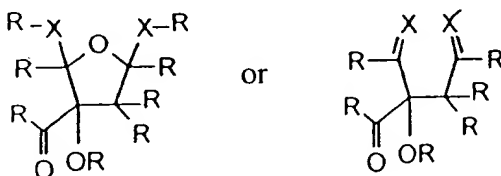
with a biindole having the ring structure



in the presence of a transition metal catalyst in a solvent capable of solvating the reactants, to produce an indolocarbazole having the ring structure

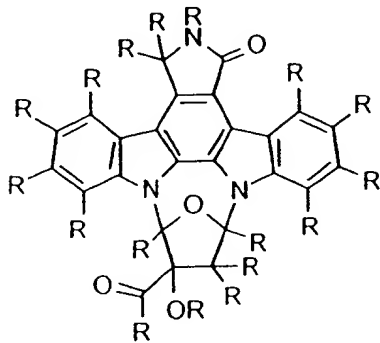


and then reacting the indolocarbazole with an acetal having the structure



wherein X is O;

to produce a furanosylated product having the ring structure



wherein R is selected from the group consisting of:

hydrogen;

CH₃;

OCH₃;

3,4-DMB;

PMB;

Bn;

t-Bu;

saturated or unsaturated, branched, linear, or cyclic alkyl, heteroalkyl, aryl,

and heteroaryl groups; and mixtures of the foregoing, wherein hetero refers to O, S, N, or P.